

Table 1. 1998 Summary Statistics

Item	Value	U.S. Rank	Item	Value	U.S. Rank
NERC Region(s)		WSCC	Utility		
Net Exporter or Importer		Exporter	Capability (MW)	15,084	19
Primary Generating Fuel		Coal	Generation (MWh)	81,299,241	18
Population (as of 7/98)	4,667,277	21	Average Age of Plants (years)		
Average Electricity Price (cents/kWh) ^a	7.33	37	Coal-fired	20	
Industrial	5.12	40	Petroleum-fired	27	
Commercial	7.76	36	Gas-fired	32	
Residential	8.68	35	Nuclear	11	
Industry			Hydroelectric	42	
Capability (MW)	15,254	21	Renewable	1	
Generation (MWh)	82,080,348	19	Nonutility		
Capability/person			Capability (MW)	171	41
(KWe/person)	3.27	23	Share of Capability (Percent)	1.1	45
Generation/person			Generation (MWh)	781,107	41
(MWh/person)	17.59	15	Share of Generation (Percent)	1	45
Emissions (Thousand Short Tons)					
Sulfur Dioxide	96	27			
Nitrogen Oxide	135	22			
Carbon Dioxide	41,642	22			
Sulfur Dioxide/sq. mile (Tons)	0.85	39			
Nitrogen Oxides/sq. mile (Tons)	1.19	40			
Carbon Dioxide/sq. mile (Tons)	366.43	39			

Table 2. Five Largest Plants, 1998

Plant	Energy Source ^b	Operating Company	Net Capability (MW)	Age (Years)
1. Palo Verde	Nuclear	Arizona Public Service Co	3,733	12
2. Navajo	Coal	Salt River Proj Ag I & P Dist	2,255	24
3. Glen Canyon	Hydro	Bureau of Reclamation	1,296	34
4. Hoover	Hydro	Bureau of Reclamation	1,042	62
5. Cholla	Coal	Arizona Public Service Co	995	36

Table 3. Top Five Utilities Ranked by Retail Sales Revenue Within the State, 1998
(Million Dollars)

Utility	All Sectors	Residential	Commercial	Industrial	Other
A. Arizona Public Service Company	1,655	767	699	179	11
B. Salt River Project	1,355	688	468	153	46
C. Tucson Electric Power Company	623	249	146	210	18
D. Citizens Utilities Company	88	42	30	10	6
E. Sulphur Springs Valley E C Inc	46	25	16	2	3
Total	3,768	1,770	1,360	554	84
Percentage of Utility Sales	92	94	95	86	59

Table 4. Electric Power Industry Generating Capability by Plant Type, 1988, 1993, and 1998
(Megawatts Electric)

Plant Type	1988	1993	1998	Annual Growth Rate 1988-1998 (Percent)	Percentage Share 1988	Percentage Share 1993	Percentage Share 1998
Total Utility	14,448	15,034	15,084	0.5	100.0	100.0	100.0
Coal-fired	4,762	5,108	5,286	1.2	33.0	34.0	35.0
Petroleum-fired	75	97	85	1.5	0.5	0.6	0.6
Gas-fired	10	10	10	*	0.1	0.1	0.1
Dual-fired	3,287	3,229	3,077	-0.7	22.7	21.5	20.4
Nuclear	3,663	3,810	3,733	0.2	25.4	25.3	24.7
Hydroelectric	2,652	2,781	2,893	1.0	18.4	18.5	19.2
Renewable	--	--	*	--	--	--	*
Total Nonutility	W	W	171	--	--	--	--
Industry	W	W	15,254	--	--	--	--

Figure 1. Utility Generating Capability by Plant Type, 1998

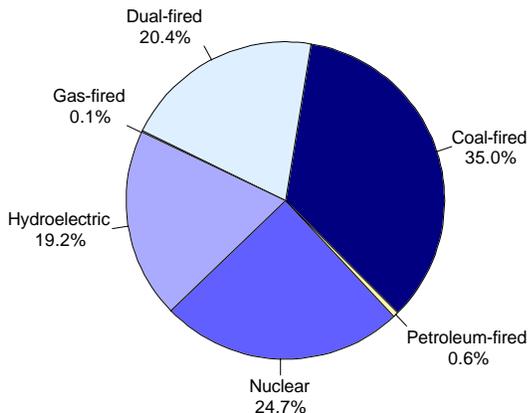


Figure 2. Utility Generation by Primary Energy Source, 1998

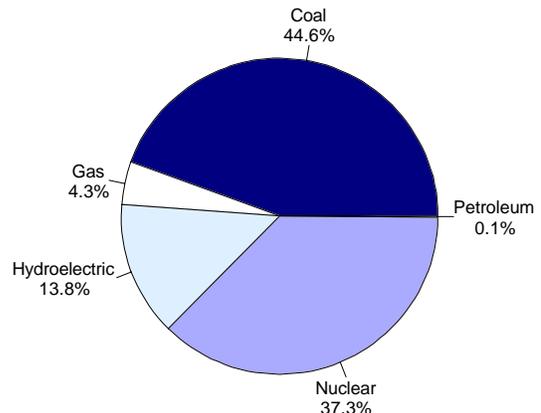


Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1988, 1993, and 1998
(Megawatthours)

Fuel	1988	1993	1998	Annual Growth Rate 1988-1998 (Percent)	Percentage Share 1988	Percentage Share 1993	Percentage Share 1998
Total Utility	61,562,300	68,025,039	81,299,241	3.1	100.0	100.0	100.0
Coal	28,390,913	37,020,817	36,225,373	2.7	46.1	54.4	44.6
Petroleum	118,954	59,875	61,227	-7.1	0.2	0.1	0.1
Gas	2,340,952	1,872,396	3,472,416	4.5	3.8	2.8	4.3
Nuclear	22,940,487	22,048,880	30,301,045	3.1	37.3	32.4	37.3
Hydroelectric	7,770,995	7,023,071	11,239,180	4.2	12.6	10.3	13.8
Total Nonutility	W	W	781,107	--	--	--	--
Industry	W	W	82,080,348	--	--	--	--

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Gas, 1988, 1993, and 1998
(Cents per Million Btu, 1998 Dollars)

Fuel	1988	1993	1998	Annual Growth Rate 1988-1998 (Percent)
Coal	140.5	135.2	133.1	-0.6
Petroleum	407.0	511.4	429.0	0.6
Gas	224.1	280.7	239.1	0.7

Table 7. Electric Power Industry Emissions Estimates, 1988, 1993, and 1998
(Thousand Short Tons)

Emission Type	1988	1993	1998	Annual Growth Rate 1988-1998 (Percent)
Sulfur Dioxide	95	130	96	0.1
Nitrogen Oxides ^c	106	130	135	2.7
Carbon Dioxide ^c	31,593	40,245	41,642	3.1

Figure 3. Utility Generation of Electricity by Primary Energy Source, 1988-1998

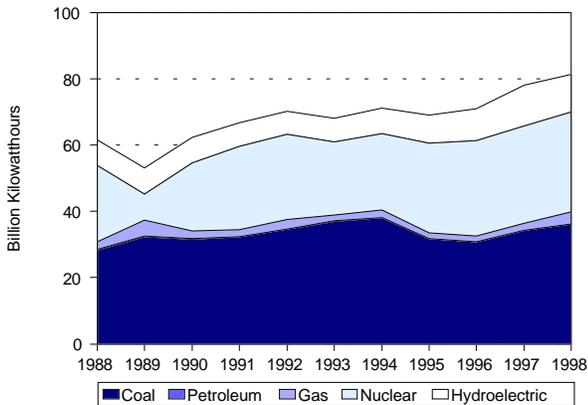


Figure 4. Utility Delivered Fuel Prices for Coal, Petroleum, and Gas, 1988-1998
(1998 Dollars)

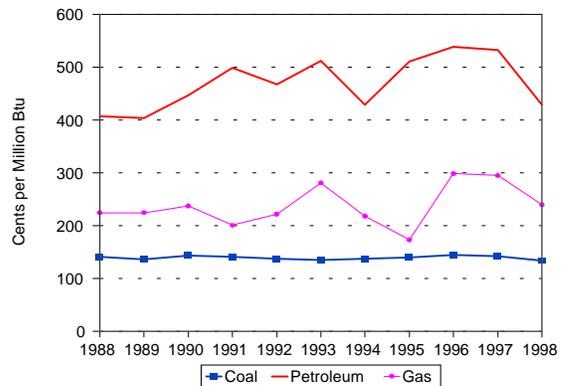


Figure 5. Estimated Sulfur Dioxide Emissions, 1988-1998

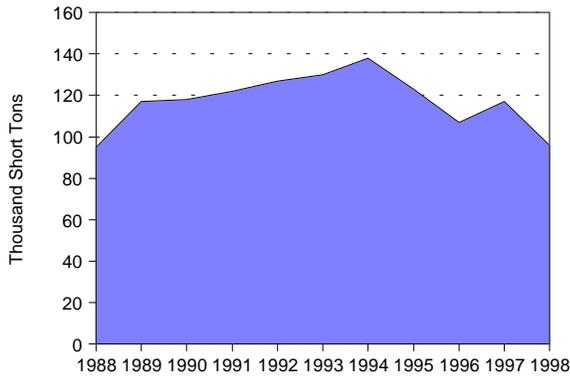


Figure 6. Estimated Nitrogen Oxide Emissions, 1988-1998

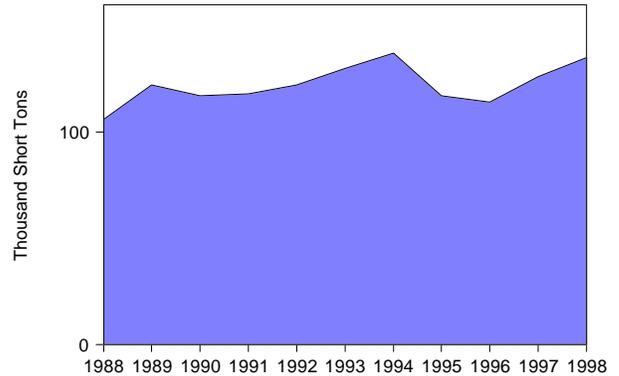


Figure 7. Estimated Carbon Dioxide Emissions, 1988-1998

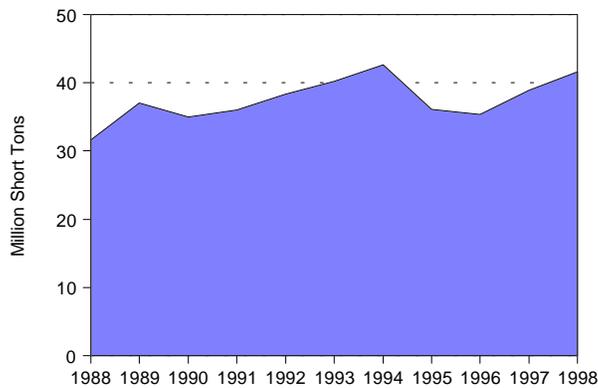


Table 8. Utility Retail Sales by Sector, 1988, 1993, and 1998
(Megawatthours)

Sector	1988	1993	1998	Annual Growth Rate 1988-1998 (Percent)	Percentage Share 1988	Percentage Share 1993	Percentage Share 1998
Residential . . .	14,730,969	16,705,090	21,610,888	4.3	37.8	37.6	38.7
Commercial . .	12,345,694	14,813,140	18,439,797	4.6	31.7	33.4	33.0
Industrial	9,261,483	10,989,057	12,548,978	3.4	23.8	24.8	22.5
Other	2,578,195	1,900,567	3,243,614	2.6	6.6	4.3	5.8
Total	38,916,338	44,407,854	55,843,277	4.1	100.0	100.0	100.0

Figure 8. Nuclear Power Capacity Factor Comparison, 1988-1998

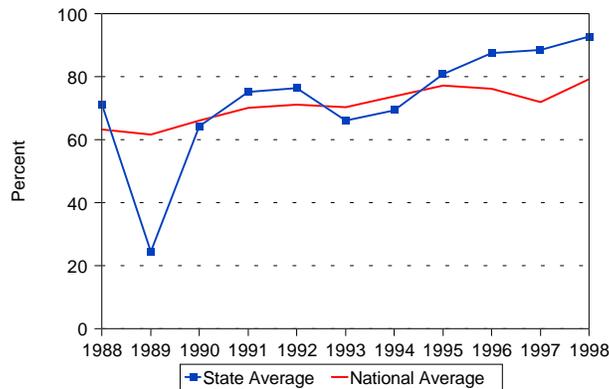


Table 9. Utility Retail Sales Statistics, 1988, 1993, and 1998

Item	Investor-Owned	Public	Federal	Cooperative	Total
	1988				
Number of Utilities	5	21	1	13	40
Number of Retail Customers	868,518	567,903	37	97,757	1,534,215
Retail Sales (MWh)	20,603,129	15,439,242	637,395	2,236,572	38,916,338
Percentage of Retail Sales	52.9	39.7	1.6	5.7	100.0
Revenue from Retail Sales (million 1998 dollars) ^d	2,145	1,306	8	196	3,654
Percentage of Revenue	58.7	35.7	0.2	5.4	100.0
1993					
Number of Utilities	5	23	2	11	41
Number of Retail Customers	978,325	624,653	14,408	107,705	1,725,091
Retail Sales (MWh)	23,783,521	17,204,642	801,612	2,618,079	44,407,854
Percentage of Retail Sales	53.6	38.7	1.8	5.9	100.0
Revenue from Retail Sales (million 1998 dollars) ^d	2,371	1,422	28	192	4,013
Percentage of Revenue	59.1	35.4	0.7	4.8	100.0
1998					
Number of Utilities	5	27	3	10	45
Number of Retail Customers	1,164,538	746,206	18,196	129,572	2,058,512
Retail Sales (MWh)	29,848,381	21,763,707	1,174,223	3,056,966	55,843,277
Percentage of Retail Sales	53.5	39	2.1	5.5	100.0
Revenue from Retail Sales (million 1998 dollars) ^d	2,387	1,467	34	204	4,092
Percentage of Revenue	58.3	35.8	0.8	5	100.0